

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	1076	(wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole) and (pump\$4 same loop) and ((measur\$7 sens\$4 detect\$4) with (fluid flow liquid rate))	US-PGPUB; USPAT	OR	ON	2009/12/31 14:05
L4	466	wellbore and (pump\$4 same loop) and ((measur\$7 sens\$4 detect\$4) with (fluid flow liquid rate))	US-PGPUB; USPAT	OR	ON	2009/12/31 14:06
L5	610	(wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole) and (pump\$4 same loop) and ((measur\$7 sens\$4 detect\$4) with (fluid flow liquid rate)) not L4	US-PGPUB; USPAT	OR	ON	2009/12/31 14:06
L6	45	("20020117214" "20030066650" "20030078751" "20030085036" "20040007131" "20060157282" "3578077" "4091881" "4197868" "4247312" "4374544" "4942763" "5010966" "5382411" "5388650" "5415776" "5426137" "5426137" "5511582" "5694966" "5749422" "5775442" "5827357" "5857522" "5857522" "5862869" "5921962" "5928519" "6035952" "6041873" "6048175" "6206113" "6234258"	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44

		"6312209" "6315813" "6328107" "6328118" "6413297" "6443245" "6494262" "6568416" "6662885" "6668943" "6722436" "6790367" "6929068" "6981561").FN.				
L7	25	L6 and wellbore	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L8	980	700/282.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L9	261	700/283.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L10	438	137/2.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L11	175	137/7.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L12	141	137/8.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L13	281	137/101.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L14	437	137/110.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L15	300	700/284.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L16	521	251/5.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L17	616	137/14.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L18	106	137/485.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L19	707	137/486.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L20	1215	137/487.5.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L21	606	137/489.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L22	1281	137/557.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L23	410	175/5.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L24	150	175/25.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L25	154	175/38.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44

L26	345	175/48.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L27	393	702/9.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L28	284	702/12.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L29	787	702/45.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L30	585	702/50.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L31	495	702/100.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L32	245	702/113.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L33	91	702/114.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L34	159	166/252.1.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L35	251	166/358.ccls.	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L36	10973	L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24 L25 L26 L27 L28 L29 L30 L31 L32 L33 L34 L35	US-PGPUB; USPAT	OR	ON	2009/12/31 14:44
L37	70556	(Precision Weatherford). as.	US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/31 14:45
L38	760	((Steiner with (Adrian A)) (Grossman with (Mike M))).in.	US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/31 14:46
L39	2	(37 38) and (pump\$4 and adjust\$4 and orifice and wellbore and reservoir and circuit)	US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/31 14:54

S1	1	("700"/\$ "137"/\$) and ((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor)	USPAT	OR	OFF	2006/02/23 15:05
S2	8	("700"/\$ "137"/\$) and ((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor)	US-PGPUB; USPAT	OR	ON	2006/02/23 15:46
S3	14	("700"/\$ "137"/\$) and ((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump	US-PGPUB; USPAT	OR	ON	2006/02/23 15:46
S4	62	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor)	US-PGPUB; USPAT	OR	ON	2006/02/24 12:22

S5	50	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller and \$5processor)	US-PGPUB; USPAT	OR	ON	2006/02/24 12:37
S6	49	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller and \$5processor) and downstream	US-PGPUB; USPAT	OR	ON	2006/02/24 12:38
S7	59	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor) and downstream	US-PGPUB; USPAT	OR	ON	2006/02/24 12:44
S8	43	((control\$4 with flow with rate) same (pressur\$7 with fluid)) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor) and	US-PGPUB; USPAT	OR	ON	2006/02/24 13:00

		downstream and (flow with control\$4 with orifice)				
S9	7	("700"/\$ "137"/\$) and ((control\$4 with flow with rate) same (pressur\$7 with fluid) and conduit and (orifice with (open\$4 clos\$4)) and (choke valve) and turbine and (pressur\$7 with fluid) and (pressure with (sens\$3 detect\$3 signal)) and (tube pitot pilot) and pump and (controller \$5processor) and downstream and (flow with control\$4 with orifice)	US-PGPUB; USPAT	OR	ON	2006/02/24 14:59
S10	2863	((flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow)	US-PGPUB; USPAT	OR	ON	2006/08/10 17:45
S12	0	((flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow) and pump and (controller same (compar\$4 with flow)) and (choke valve) and turbine and (pressure near2 (sens\$3 detect\$3 measur\$5))	US-PGPUB; USPAT	OR	ON	2006/08/10 18:01
S13	23	((flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow) and pump and (controller same (compar\$4 with flow)) and (choke valve) and turbine and (pressure near2 (sens\$3 detect\$3	US-PGPUB; USPAT	OR	ON	2006/08/11 09:59

		measur\$5))				
S14	5	((flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow) and pump and (controller same (compar\$4 with flow)) and (choke valve) and turbine and (pressure near2 (sens\$3 detect\$3 measur\$5)) and (drilling rig)	US-PGPUB; USPAT	OR	ON	2006/08/11 12:11
S15	1	((flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow) and pump and (controller same (compar\$4 with flow)) and (choke valve) and turbine and (pressure near2 (sens\$3 detect\$3 measur\$5)) and (pitot and pilot)	US-PGPUB; USPAT	OR	ON	2006/08/11 09:59
S16	11	((flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (pitot and pilot)	US-PGPUB; USPAT	OR	ON	2006/08/11 10:09
S17	7	((flow near1 rate) and ((flow near2 (sens\$3 detect\$3 measur\$5)) with (pitot and pilot)) and (pitot pilot)	US-PGPUB; USPAT	OR	ON	2006/08/11 10:14
S18	7	((flow near1 rate) and ((flow near2 (sens\$3 detect\$3 measur\$5)) with (pitot and pilot))	US-PGPUB; USPAT	OR	ON	2006/08/11 10:14

S19	356	(flow near1 rate) and (flow near2 (sens\$3 detect\$3 measur\$5)) and conduit and (flow with control\$4) and controller and (maintain with flow) and pump and (controller same (compar\$4 with flow))	US-PGPUB; USPAT	OR	ON	2006/08/11 12:29
S20	30	(flow with (measur\$7 sens\$3 detect\$3) with conduit) and (flow with control\$4 with orifice with (adjust\$7 open\$4 clos\$3)) and (choke valve) and turbine and (pressure with (measur\$7 sens\$3 detect\$3)) and pump	US-PGPUB; USPAT	OR	ON	2007/01/26 14:05
S21	34	(flow with (measur\$7 sens\$3 detect\$3) with conduit) and (flow with control\$4 with orifice with (adjust\$7 open\$4 clos\$3 maintain\$3 constant)) and (choke valve) and turbine and (pressure with (measur\$7 sens\$3 detect\$3)) and pump	US-PGPUB; USPAT	OR	ON	2007/01/26 15:01
S22	34	(flow with (measur\$7 sens\$3 detect\$3) with conduit) and (flow with control\$4 with orifice with (adjust\$7 open\$4 clos\$3 maintain\$3 constant limit constraint tolerance)) and (choke valve) and turbine and (pressure with (measur\$7 sens\$3 detect\$3)) and pump	US-PGPUB; USPAT	OR	ON	2007/01/29 18:52

S23	34	(flow with (measur\$7 sens\$3 detect\$3) with conduit) and (flow with control\$4 with orifice with (adjust\$7 open\$4 clos\$3 maintain\$3 constant limit constraint tolerance threshold)) and (choke valve) and turbine and (pressure with (measur\$7 sens\$3 detect\$3)) and pump	US-PGPUB; USPAT	OR	ON	2007/01/26 15:01
S24	28	("20030085036" "20040007131" "20060157282" "4091881" "4247312" "5010966" "5388650" "5415776" "5749422" "5775442" "5827357" "5857522" "5862869" "5928519" "6035952" "6041873" "6206113" "6234258" "6315813" "6328107" "6328118" "6413297" "6443245" "6494262" "6662885" "6722436" "6790367" "6929068").FN.	US-PGPUB; USPAT	OR	ON	2007/01/29 18:52
S25	1196	(orifice with maintain\$4 with flow with fluid)	US-PGPUB; USPAT	OR	ON	2007/06/07 13:49
S26	487	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4)	US-PGPUB; USPAT	OR	ON	2007/06/07 14:06
S27	320	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and pump	US-PGPUB; USPAT	OR	ON	2007/06/07 14:14

S28	162	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 13:39
S29	55	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and (pump same reservoir) and controller	US-PGPUB; USPAT	OR	ON	2007/06/26 13:29
S30	162	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:07
S31	1	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and (pump same reservoir) and (wellbore borehole)	US-PGPUB; USPAT	OR	ON	2007/06/26 13:48
S32	4	(orifice with maintain\$4 with flow with fluid) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and (pump same reservoir) and turbine	US-PGPUB; USPAT	OR	ON	2007/06/26 13:49
S33	19	(orifice with maintain\$4 with flow with fluid same within) and ((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 14:20

S34	19842	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within (limit level tolerance range)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:17
S35	3864	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within (limit level tolerance range)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:20
S36	2428	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within (limit range)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:23
S37	933	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within (limit range) same (valve choke orifice)) and (pump same reservoir)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:28
S38	101	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within (limit range) same (valve choke orifice)) and (pump same reservoir) and turbine	US-PGPUB; USPAT	OR	ON	2007/06/26 15:42
S39	15	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with within (limit range) same (valve choke orifice)) and (pump same reservoir) and turbine and ("700"/\$ "137"/\$)	US-PGPUB; USPAT	OR	ON	2007/06/26 15:43

S40	47	((measur\$7 sens\$4 detect\$4) with (fluid flow)) and ((fluid flow) with control\$4) and ((fluid flow) with (limit range) same (valve choke orifice)) and (pump same reservoir) and turbine and ("700"/\$ "137"/\$)	US-PGPUB; USPAT	OR	ON	2007/06/26 17:59
S41	1169	(wellbore with flow with control\$4)	US-PGPUB; USPAT	OR	ON	2007/11/12 12:29
S42	428	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow)	US-PGPUB; USPAT	OR	ON	2007/11/12 12:39
S43	230	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and (flow with (measur\$7 sens\$4 detect\$4))	US-PGPUB; USPAT	OR	ON	2007/11/12 12:56
S44	230	(US-20070221380-\$ or US-20070215386-\$ or US-20070213963-\$ or US-20070187103-\$ or US-20070175638-\$ or US-20070151762-\$ or US-20070079962-\$ or US-20070068704-\$ or US-20070045006-\$ or US-20070044960-\$ or US-20070039731-\$ or US-20070017675-\$ or US-20070007041-\$ or US-20060260331-\$ or US-20060225920-\$ or US-20060207795-\$ or US-20060175061-\$ or US-20060157282-\$ or US-20060124352-\$ or US-20060113110-\$ or US-20060113089-\$ or US-20060102390-\$ or US-20060081378-\$ or US-20060065402-\$ or US-20060054323-\$ or US-20060037781-\$). did. or (US-20060037408-\$ or US-20060000614-\$ or US-20060000603-\$ or US-20050288819-\$ or US-20050279506-\$ or US-	US-PGPUB; USPAT	OR	OFF	2007/11/12 12:50

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US-20040124008-\$ or
US-20040112642-\$ or
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US-20040069504-\$ or
US-20040065477-\$ or
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US-20030079912-\$ or
US-20030079880-\$ or
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US-20030015320-\$ or
US-20020189815-\$ or
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20020112888-\$ or US-
20020092655-\$ or US-
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20020060067-\$ or US-

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20010050170-\$ or US-
20010030049-\$ or US-
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7281415-\$ or US-
7278496-\$ or US-
7270185-\$ or US-
7246662-\$ or US-
7243536-\$ or US-
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7066280-\$ or US-
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7044229-\$ or US-
6991040-\$ or US-
6981561-\$ or US-
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6814142-\$ or US-
6799633-\$ or US-
6790367-\$ or US-
6786285-\$ or US-
6745845-\$ or US-
6745833-\$ or US-
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6668924-\$ or US-
6666271-\$ or US-
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6648081-\$ or US-
6629564-\$ or US-

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6543540-\$ or US-
6540033-\$ or US-
6536529-\$ or US-
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6505691-\$ or US-
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5992519-\$ or US-
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5964296-\$ or US-
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5937945-\$ or US-
5934374-\$ or US-
5927401-\$ or US-
5896924-\$ or US-
5868201-\$ or US-
5857522-\$ or US-
5829520-\$ or US-
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5762149-\$ or US-
5741962-\$ or US-
5735346-\$ or US-
5732776-\$ or US-
5730219-\$ or US-
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5706892-\$ or US-
5662165-\$ or US-
5622223-\$ or US-
5597042-\$ or US-

		5579283-\$).did. or (US- 5573225-\$ or US- 5525040-\$ or US- 5517854-\$ or US- 5505263-\$ or US- 5482402-\$ or US- 5472050-\$ or US- 5439055-\$ or US- 5392867-\$ or US- 5377755-\$ or US- 5353637-\$ or US- 5325795-\$ or US- 5261765-\$ or US- 5180015-\$ or US- 5168932-\$ or US- 5024275-\$ or US- 4989673-\$ or US- 4797821-\$ or US- 4721172-\$ or US- 4615390-\$ or US- 4605074-\$ or US- 4566536-\$ or US- 4475593-\$ or US- 4440239-\$ or US- 4374544-\$ or US- 4354553-\$ or US- 4145161-\$ or US- 4091881-\$).did. or (US- 4063602-\$ or US- 4043192-\$ or US- 3705626-\$ or US- 3578077-\$).did.				
S45	230	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and S44	US-PGPUB; USPAT	OR	ON	2007/11/12 12:54
S46	184	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and (flow with (measur\$7 sens\$4 detect\$4)) and pump	US-PGPUB; USPAT	OR	ON	2007/12/11 11:37

S47	184	(US-20070215386-\$ or US-20070187103-\$ or US-20070175638-\$ or US-20070151762-\$ or US-20070079962-\$ or US-20070068704-\$ or US-20070045006-\$ or US-20070044960-\$ or US-20070039731-\$ or US-20070017675-\$ or US-20070007041-\$ or US-20060260331-\$ or US-20060225920-\$ or US-20060207795-\$ or US-20060175061-\$ or US-20060157282-\$ or US-20060124352-\$ or US-20060113110-\$ or US-20060102390-\$ or US-20060081378-\$ or US-20060065402-\$ or US-20060054323-\$ or US-20060037781-\$ or US-20060037408-\$ or US-20060000603-\$ or US-20050288819-\$). did. or (US- 20050279506-\$ or US- 20050274547-\$ or US- 20050263287-\$ or US- 20050217350-\$ or US- 20050183574-\$ or US- 20050166961-\$ or US- 20050155760-\$ or US- 20050121197-\$ or US- 20050098349-\$ or US- 20050011645-\$ or US- 20040256161-\$ or US- 20040222018-\$ or US- 20040216874-\$ or US- 20040206548-\$ or US- 20040173351-\$ or US- 20040168811-\$ or US- 20040154805-\$ or US- 20040154803-\$ or US- 20040129874-\$ or US- 20040129428-\$ or US- 20040129070-\$ or US- 20040124008-\$ or US- 20040112642-\$ or US- 20040069539-\$ or US- 20040069504-\$ or US- 20040065477-\$ or US- 20040065440-\$). did. or (US-20040060705-\$ or	US-PGPUB; USPAT	OR	OFF	2007/11/12 12:57
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US-20040031623-\$ or
US-20040007392-\$ or
US-20040000433-\$ or
US-20030192692-\$ or
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US-20030085185-\$ or
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		5439055-\$ or US- 5377755-\$ or US- 5353637-\$ or US- 5325795-\$ or US- 5261765-\$ or US- 5180015-\$ or US- 5168932-\$ or US- 5024275-\$ or US- 4721172-\$ or US- 4615390-\$ or US- 4475593-\$ or US- 4440239-\$ or US- 4374544-\$ or US- 4354553-\$ or US- 4145161-\$ or US- 4063602-\$ or US- 3705626-\$).did. or (US- 3578077-\$).did.				
S48	184	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and S47	US-PGPUB; USPAT	OR	ON	2007/12/11 11:35
S49	184	(US-20070215386-\$ or US-20070187103-\$ or US-20070175638-\$ or US-20070151762-\$ or US-20070079962-\$ or US-20070068704-\$ or US-20070045006-\$ or US-20070044960-\$ or US-20070039731-\$ or US-20070017675-\$ or US-20070007041-\$ or US-20060260331-\$ or US-20060225920-\$ or US-20060207795-\$ or US-20060175061-\$ or US-20060157282-\$ or US-20060124352-\$ or US-20060113110-\$ or US-20060102390-\$ or US-20060081378-\$ or US-20060065402-\$ or US-20060054323-\$ or US-20060037781-\$ or US-20060037408-\$ or US-20060000603-\$ or US-20050288819-\$). did. or (US- 20050279506-\$ or US- 20050274547-\$ or US- 20050263287-\$ or US- 20050217350-\$ or US- 20050183574-\$ or US- 20050166961-\$ or US-	US-PGPUB; USPAT	OR	OFF	2007/12/11 11:35

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		5896924-\$ or US- 5868201-\$ or US- 5857522-\$ or US- 5829520-\$ or US- 5803167-\$ or US- 5762149-\$ or US- 5741962-\$ or US- 5735346-\$ or US- 5732776-\$ or US- 5730219-\$ or US- 5721538-\$ or US- 5706896-\$.did. or (US- 5706892-\$ or US- 5662165-\$ or US- 5622223-\$ or US- 5597042-\$ or US- 5579283-\$ or US- 5573225-\$ or US- 5525040-\$ or US- 5517854-\$ or US- 5482402-\$ or US- 5472050-\$ or US- 5439055-\$ or US- 5377755-\$ or US- 5353637-\$ or US- 5325795-\$ or US- 5261765-\$ or US- 5180015-\$ or US- 5168932-\$ or US- 5024275-\$ or US- 4721172-\$ or US- 4615390-\$ or US- 4475593-\$ or US- 4440239-\$ or US- 4374544-\$ or US- 4354553-\$ or US- 4145161-\$ or US- 4063602-\$ or US- 3705626-\$.did. or (US- 3578077-\$.did.				
S50	184	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and S49	US-PGPUB; USPAT	OR	ON	2007/12/11 11:35
S51	185	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and (flow with (measur\$7 sens\$4 detect\$4)) and pump	US-PGPUB; USPAT	OR	ON	2007/12/11 13:02

S52	185	(US-20070278007-\$ or US-20070215386-\$ or US-20070187103-\$ or US-20070175638-\$ or US-20070151762-\$ or US-20070079962-\$ or US-20070068704-\$ or US-20070045006-\$ or US-20070044960-\$ or US-20070039731-\$ or US-20070017675-\$ or US-20070007041-\$ or US-20060260331-\$ or US-20060225920-\$ or US-20060207795-\$ or US-20060175061-\$ or US-20060157282-\$ or US-20060124352-\$ or US-20060113110-\$ or US-20060102390-\$ or US-20060081378-\$ or US-20060065402-\$ or US-20060054323-\$ or US-20060037781-\$ or US-20060037408-\$ or US-20060000603-\$). did. or (US- 20050288819-\$ or US- 20050279506-\$ or US- 20050274547-\$ or US- 20050263287-\$ or US- 20050217350-\$ or US- 20050183574-\$ or US- 20050166961-\$ or US- 20050155760-\$ or US- 20050121197-\$ or US- 20050098349-\$ or US- 20050011645-\$ or US- 20040256161-\$ or US- 20040222018-\$ or US- 20040216874-\$ or US- 20040206548-\$ or US- 20040173351-\$ or US- 20040168811-\$ or US- 20040154805-\$ or US- 20040154803-\$ or US- 20040129874-\$ or US- 20040129428-\$ or US- 20040129070-\$ or US- 20040124008-\$ or US- 20040112642-\$ or US- 20040069539-\$ or US- 20040069504-\$ or US- 20040065477-\$).did. or (US-20040065440-\$ or	US-PGPUB; USPAT	OR	OFF	2007/12/11 11:41
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		5472050-\$ or US- 5439055-\$ or US- 5377755-\$ or US- 5353637-\$ or US- 5325795-\$ or US- 5261765-\$ or US- 5180015-\$ or US- 5168932-\$ or US- 5024275-\$ or US- 4721172-\$ or US- 4615390-\$ or US- 4475593-\$ or US- 4440239-\$ or US- 4374544-\$ or US- 4354553-\$ or US- 4145161-\$ or US- 4063602-\$ or US- 3705626-\$).did. or (US- 3578077-\$).did.				
S53	185	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and S52	US-PGPUB; USPAT	OR	ON	2007/12/11 13:01
S54	59	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow) and (flow with (measur\$7 sens\$4 detect\$4)) and pump and turbine and (pressure with (measur \$7 sens\$4 detect\$4))	US-PGPUB; USPAT	OR	ON	2007/12/11 15:23
S55	126	S53 not S54	US-PGPUB; USPAT	OR	ON	2007/12/11 13:01
S56	38	(wellbore with flow with control\$4) and ((maintain\$4 constant) with flow same (predetermined predefined (pre with (defined determined)))) and (flow with (measur \$7 sens\$4 detect\$4)) and pump	US-PGPUB; USPAT	OR	ON	2007/12/11 13:04

S57	25	(wellbore with flow with control\$4) and (((maintain\$4 constant) with flow same (predetermined predefined (pre with (defined determined)))) and (flow with (measur \$7 sens\$4 detect\$4)) and pump not \$54	US-PGPUB; USPAT	OR	ON	2007/12/11 13:04
S58	2541	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4)))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:01
S59	2389	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and (((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:15
S60	2141	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and (((fluid flow liquid rate) with (maintain\$4 within keep\$4 exceed \$4))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:16
S61	2187	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and (((fluid flow liquid rate) with (maintain\$4 within keep\$4 exceed \$4))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:16

S62	770	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary)))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:17
S63	986	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value)))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:18
S64	838	wellbore.bsum. and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value)))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:19
S65	316	wellbore.bsum. and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value))) and loop\$4	US-PGPUB; USPAT	OR	ON	2009/07/14 14:20

S66	368	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value)) and loop\$4	US-PGPUB; USPAT	OR	ON	2009/07/14 14:21
S67	368	(US-20090166171-\$ or US-20090158837-\$ or US-20090140444-\$ or US-20090139724-\$ or US-20090126929-\$ or US-20090124521-\$ or US-20090120646-\$ or US-20090095480-\$ or US-20090095479-\$ or US-20090095478-\$ or US-20090095477-\$ or US-20090095476-\$ or US-20090090509-\$ or US-20090090504-\$ or US-20090090158-\$ or US-20090084547-\$ or US-20090078461-\$ or US-20090078036-\$ or US-20090071652-\$ or US-20090071647-\$ or US-20090044951-\$ or US-20090029878-\$ or US-20090020456-\$ or US-20090008560-\$ or US-20080317095-\$ or US-20080314638-\$). did. or (US- 20080314593-\$ or US- 20080289435-\$ or US- 20080271923-\$ or US- 20080264495-\$ or US- 20080262736-\$ or US- 20080257544-\$ or US- 20080230219-\$ or US- 20080210470-\$ or US- 20080182762-\$ or US- 20080156486-\$ or US- 20080149343-\$ or US- 20080149329-\$ or US- 20080133194-\$ or US- 20080115575-\$ or US- 20080115574-\$ or US-	US-PGPUB; USPAT	OR	OFF	2009/07/14 14:34

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US-20070193739-\$ or
US-20070187089-\$ or
US-20070151762-\$ or
US-20070131411-\$ or
US-20070119626-\$ or
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S68	368	S67 and ((fluid flow liquid rate) with (maintain\$4 within keep \$4 above below exceed \$4) with (limit constraints range boundary desired value))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:34
S69	368	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraint range boundary desired value)) and loop\$4	US-PGPUB; USPAT	OR	ON	2009/07/14 14:47
S70	368	S67 and ((fluid flow liquid rate) with (maintain\$4 within keep \$4 above below exceed \$4) with (limit constraint range boundary desired value))	US-PGPUB; USPAT	OR	ON	2009/07/14 14:47
S71	379	wellbore and pump\$4 and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and ((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and loop\$4	US-PGPUB; USPAT	OR	ON	2009/07/14 14:49

S72	379	(US-20090166171-\$ or US-20090158837-\$ or US-20090140444-\$ or US-20090139724-\$ or US-20090126929-\$ or US-20090124521-\$ or US-20090120646-\$ or US-20090095480-\$ or US-20090095479-\$ or US-20090095478-\$ or US-20090095477-\$ or US-20090095476-\$ or US-20090091320-\$ or US-20090090509-\$ or US-20090090504-\$ or US-20090090158-\$ or US-20090084547-\$ or US-20090078461-\$ or US-20090078036-\$ or US-20090071652-\$ or US-20090071647-\$ or US-20090044951-\$ or US-20090029878-\$ or US-20090025930-\$ or US-20090020456-\$ or US-20090008560-\$). did. or (US- 20080317095-\$ or US- 20080314638-\$ or US- 20080314593-\$ or US- 20080289435-\$ or US- 20080271923-\$ or US- 20080264495-\$ or US- 20080262736-\$ or US- 20080257544-\$ or US- 20080230219-\$ or US- 20080210470-\$ or US- 20080182762-\$ or US- 20080156486-\$ or US- 20080149343-\$ or US- 20080149329-\$ or US- 20080133194-\$ or US- 20080115575-\$ or US- 20080115574-\$ or US- 20080110674-\$ or US- 20080110673-\$ or US- 20080093124-\$ or US- 20080067116-\$ or US- 20080066536-\$ or US- 20080041149-\$ or US- 20080007423-\$ or US- 20070246263-\$ or US- 20070235223-\$ or US- 20070227774-\$). did. or (US-20070215386-\$ or	US-PGPUB; USPAT	OR	OFF	2009/07/14 14:50
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S73	379	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and S72	US-PGPUB; USPAT	OR	ON	2009/07/14 14:51

S74	15423	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir)	US-PGPUB; USPAT	OR	ON	2009/07/14 16:39
S75	173	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir) and S72	US-PGPUB; USPAT	OR	ON	2009/07/14 16:40
S76	27	(US-20040098984-\$ or US-20030078751-\$ or US-20020117214-\$ or US-20050056313-\$ or US-20020005197-\$ or US-20030230307-\$ or US-20030066650-\$). did. or (US-6568416-\$ or US-4942763-\$ or US-5511582-\$ or US-6648576-\$ or US-6547505-\$ or US-6312209-\$ or US-5426137-\$ or US-6668943-\$ or US-5382411-\$ or US-4374544-\$ or US-6981561-\$ or US-5857522-\$ or US-3578077-\$ or US-5579283-\$ or US-5586027-\$ or US-6035952-\$ or US-6206108-\$ or US-6662110-\$ or US-6851444-\$ or US-7234524-\$).did.	US-PGPUB; USPAT	OR	OFF	2009/07/14 16:40
S77	2	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir) and S76	US-PGPUB; USPAT	OR	ON	2009/07/14 16:41

S78	1294	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir same (feedback loop))	US-PGPUB; USPAT	OR	ON	2009/07/14 16:43
S79	732	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir with (feedback loop))	US-PGPUB; USPAT	OR	ON	2009/07/14 16:43
S80	2	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir with (feedback loop)) and (S72 S76)	US-PGPUB; USPAT	OR	ON	2009/07/14 16:44
S81	9	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with reservoir same (feedback loop)) and (S72 S76)	US-PGPUB; USPAT	OR	ON	2009/07/14 16:44
S82	21	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with (reservoir tank) same (feedback loop)) and (S72 S76)	US-PGPUB; USPAT	OR	ON	2009/07/14 16:45

S83	2364	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with (reservoir tank) same (feedback loop))	US-PGPUB; USPAT	OR	ON	2009/07/14 16:49
S84	1459	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with (reservoir tank) same (feedback loop)) and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4)))	US-PGPUB; USPAT	OR	ON	2009/07/14 16:50
S85	20	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 with (reservoir tank) same (feedback loop)) and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/14 16:50
S86	36	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold)) and (pump \$4 same (reservoir tank) same (feedback loop)) and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/14 16:52

S87	65	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 same (reservoir tank) same (feedback loop)) and (((fluid flow liquid) with (measur\$7 sens\$4 detect\$4 meter)) same ((fluid flow liquid) with (regulat\$7 control\$4))) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/14 16:53
S88	106	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 same (reservoir tank) same (feedback loop)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/14 17:10
S89	41	S88 not S87	US-PGPUB; USPAT	OR	ON	2009/07/14 17:11
S90	124	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 same (reservoir tank source) same (feedback loop)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 08:41

S91	106	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 same (reservoir tank) same (feedback loop)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 08:41
S92	18	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 same (reservoir tank source) same (feedback loop)) and wellbore not S91	US-PGPUB; USPAT	OR	ON	2009/07/20 08:41
S93	20	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined tolerance (pre adj (determined defined)))) and (pump \$4 same (reservoir tank source) same (feedback loop)) and wellbore not S91	US-PGPUB; USPAT	OR	ON	2009/07/20 09:16

S94	45	("20020117214" "20030066650" "20030078751" "20030085036" "20040007131" "20060157282" "3578077" "4091881" "4197868" "4247312" "4374544" "4942763" "5010966" "5382411" "5388650" "5415776" "5426137" "5426137" "5511582" "5694966" "5749422" "5775442" "5827357" "5857522" "5857522" "5862869" "5921962" "5928519" "6035952" "6041873" "6048175" "6206113" "6234258" "6312209" "6315813" "6328107" "6328118" "6413297" "6443245" "6494262" "6568416" "6662885" "6668943" "6722436" "6790367" "6929068" "6981561").PN.	US-PGPUB; USPAT	OR	ON	2009/07/20 09:30
S95	2	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined tolerance (pre adj (determined defined)))) and (pump \$4 same (reservoir tank source vessel container) same (feedback loop)) and wellbore not (S91 S93)	US-PGPUB; USPAT	OR	ON	2009/07/20 09:56
S96	25	S94 and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 10:00
S97	899	700/282.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01

S98	237	700/283.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S99	412	137/2.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S100	175	137/7.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S101	138	137/8.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S102	281	137/101.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S103	436	137/110.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S104	277	700/284.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:01
S105	517	251/5.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S106	597	137/14.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S107	101	137/485.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S108	699	137/486.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S109	1198	137/487.5.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S110	603	137/489.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S111	1275	137/557.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S112	403	175/5.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S113	146	175/25.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S114	151	175/38.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S115	338	175/48.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S116	369	702/9.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S117	267	702/12.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:02
S118	752	702/45.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S119	549	702/50.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S120	478	702/100.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03

S121	237	702/113.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S122	86	702/114.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S123	152	166/252.1.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S124	245	166/358.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/20 10:03
S125	60211	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 with (reservoir tank source vessel))	US-PGPUB; USPAT	OR	ON	2009/07/20 10:04
S126	1258	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified predetermined predefined (pre adj (determined defined)))) and (pump\$4 with (reservoir tank source vessel)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 10:04
S127	1270	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified tolerance predetermined predefined (pre adj (determined defined)))) and (pump\$4 with (reservoir tank source vessel)) and wellbore	US-PGPUB; USPAT	OR	ON	2009/07/20 10:05

S128	528	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified tolerance predetermined predefined (pre adj (determined defined)))) and (pump\$4 with (reservoir tank source vessel)) and wellbore and ((flow with (control \$4 regulat\$4 valve)) same ((fluid flow liquid rate) with (measur\$7 sens\$4 detect\$4 meter)))	US-PGPUB; USPAT	OR	ON	2009/07/20 10:07
S129	746	((Steiner with (Adrian A)) (Grossman with (Mike M))).in.	US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:33
S130	530	((fluid flow liquid rate) with (maintain\$4 within keep\$4 above below exceed\$4) with (limit constraints range boundary desired value threshold specified tolerance predetermined predefined (pre adj (determined defined)))) and (pump\$4 with (reservoir tank source vessel)) and wellbore and ((flow with (control \$4 regulat\$4 valve)) same ((fluid flow liquid rate) with (measur\$7 sens\$4 detect\$4 meter)))	US-PGPUB; USPAT	OR	ON	2009/07/23 15:33
S131	2	((Steiner with (Adrian A)) (Grossman with (Mike M))).in. and S130	US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:33

S132	61962	(Precision Weatherford) as.	US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:35
S133	2	S132 and S130	US-PGPUB; USPAT; USOCR; FFRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/23 15:35
S134	600	wellbore and (pump\$4 same loop)	US-PGPUB; USPAT	OR	ON	2009/11/06 15:41
S135	453	wellbore and (pump\$4 same loop) and ((measur\$7 sens\$4 detect\$4) with (fluid flow liquid rate))	US-PGPUB; USPAT	OR	ON	2009/11/06 15:57
S136	23	wellbore and (pump\$4 same loop) and ((measur\$7 sens\$4 detect\$4 meter) with (fluid flow liquid rate)) not S135	US-PGPUB; USPAT	OR	ON	2009/11/06 16:24
S137	124	S134 not (S135 S136)	US-PGPUB; USPAT	OR	ON	2009/11/06 16:27
S138	8523	((wellbore (drill near3 hole) borehole (well near3 bore)) same pump\$4) and ((measur\$7 sens\$4 detect\$4 meter) with (fluid flow liquid rate))	US-PGPUB; USPAT	OR	ON	2009/11/07 20:55
S139	45	("20020117214" "20030066650" "20030078751" "20030085036" "20040007131" "20060157282" "3578077" "4091881" "4197868" "4247312" "4374544" "4942763" "5010966" "5382411" "5388650" "5415776" "5426137" "5426137" "5511582" "5694966" "5749422" "5775442" "5827357" "5857522" "5857522" "5862869"	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58

		"5921962" "5928519" "6035952" "6041873" "6048175" "6206113" "6234258" "6312209" "6315813" "6328107" "6328118" "6413297" "6443245" "6494262" "6568416" "6662885" "6668943" "6722436" "6790367" "6929068" "6981561").PN.				
S140	25	S139 and wellbore	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S141	942	700/282.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S142	252	700/283.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S143	426	137/2.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S144	175	137/7.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S145	139	137/8.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S146	281	137/101.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S147	436	137/110.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S148	294	700/284.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S149	519	251/5.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S150	606	137/14.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S151	103	137/485.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S152	702	137/486.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S153	1207	137/487.5.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S154	605	137/489.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S155	1278	137/557.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S156	406	175/5.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58

S157	149	175/25.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S158	154	175/38.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S159	342	175/48.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S160	385	702/9.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S161	275	702/12.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S162	775	702/45.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S163	571	702/50.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S164	488	702/100.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S165	244	702/113.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S166	88	702/114.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S167	156	166/252.1.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S168	250	166/358.ccls.	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S169	10829	S140 S141 S142 S143 S144 S145 S146 S147 S148 S149 S150 S151 S152 S153 S154 S155 S156 S157 S158 S159 S160 S161 S162 S163 S164 S165 S166 S167 S168	US-PGPUB; USPAT	OR	ON	2009/11/07 20:58
S170	509	S138 and S169	US-PGPUB; USPAT	OR	ON	2009/11/07 20:59
S171	569	((wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole) same pump\$4) and ((measur\$7 sens\$4 detect\$4 meter) with (fluid flow liquid rate)) and S169	US-PGPUB; USPAT	OR	ON	2009/11/07 21:06

S172	193	((wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole) same pump\$4) and ((measur\$7 sens\$4 detect\$4 meter) with (fluid flow liquid rate)) and S169	US-PGPUB	OR	ON	2009/11/07 22:21
S173	5771	((wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole) same pump\$4) and ((measur\$7 sens\$4 detect\$4 meter) with (fluid flow liquid rate)) and ("702"/\$ "137"/\$ "175"/\$ "166"/\$).ccls. not S171	US-PGPUB; USPAT	OR	ON	2009/11/07 22:50
S174	5797	((wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole) same pump\$4) and ((measur\$7 sens\$4 detect\$4 meter) with (fluid flow liquid rate)) and ("700"/\$ "702"/\$ "137"/\$ "175"/\$ "166"/\$).ccls. not S171	US-PGPUB; USPAT	OR	ON	2009/11/07 22:50
S175	3583	((wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole) same pump\$4) and ((measur\$7 sens\$4 detect\$4 meter) with (fluid flow liquid rate)) and ("700"/\$ "702"/\$ "137"/\$ "175"/\$ "166"/\$).ccls. not S171	USPAT	OR	ON	2009/11/07 22:51

S176	3359	((wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole) same pump\$4) and ((measur\$7 sens\$4 detect\$4 meter) with (fluid flow liquid rate)) and ("700"/\$ "702"/\$ "137"/\$ "175"/\$ "166"/\$).ccls. not S171 and (wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole). bsum.	USPAT	OR	ON	2009/11/07 22:53
S177	1843	((wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole) same pump\$4) and ((measur\$7 sens\$4 detect\$4 meter) with (fluid flow liquid rate)) and ("700"/\$ "702"/\$ "137"/\$ "175"/\$ "166"/\$).ccls. not S171 and (wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole). ab.	USPAT	OR	ON	2009/11/07 22:54
S178	1667	((wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole) same pump\$4 same (valve orifice open\$4)) and ((measur\$7 sens\$4 detect\$4 meter) with (fluid flow liquid rate)) and ("700"/\$ "702"/\$ "137"/\$ "175"/\$ "166"/\$).ccls. not S171	USPAT	OR	ON	2009/11/07 23:08

S179	1589	((wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole) same pump\$4 same (valve orifice open\$4)) and ((measur\$7 sens\$4 detect\$4 meter) with (fluid flow liquid rate)) and ("700"/\$ "702"/\$ "137"/\$ "175"/\$ "166"/\$). ccls. not S171 and (wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole). bsum.	USPAT	OR	ON	2009/11/07 23:10
S180	953	((wellbore (drill near3 hole) borehole (well near3 bore) (down near3 hole) downhole) same pump\$4 same (valve orifice open\$4)) and ((measur\$7 sens\$4 detect\$4 meter) with (fluid flow liquid rate)) and ("700"/\$ "702"/\$ "137"/\$ "175"/\$ "166"/\$). ccls. not S171 and (wellbore (drill\$4 near3 hole) borehole (well near3 bore) (down near3 hole) downhole). ab.	USPAT	OR	ON	2009/11/07 23:10

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L40	695	700/282.ccls.	USPAT; UPAD	OR	ON	2009/12/31 14:59
L41	1049	700/282.ccls.	US-PGPUB; USPAT; UPAD	OR	ON	2009/12/31 14:59
L42	506	702/100.ccls.	US-PGPUB; USPAT; UPAD	OR	ON	2009/12/31 14:59
L43	460	137/2.ccls.	US-PGPUB; USPAT; UPAD	OR	ON	2009/12/31 15:00
L44	1965	41 42 43	US-PGPUB; USPAT; UPAD	OR	ON	2009/12/31 15:00

L45	1	44 and (pump\$4 and adjust\$4 and orifice and wellbore and reservoir and circuit)	US-PGPUB; USPAT; UPAD	OR	ON	2009/12/31 15:02
L46	0	(pump\$4 and adjust\$4 and orifice and wellbore and reservoir and circuit and loop). clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/12/31 15:03

12/ 31/ 09 3:03:29 PM**C:\ Documents and Settings\ CKasenge\ My Documents\ EAST\ Workspaces\ 10807372.wsp**